

24 HORAS**INTRODUCTION**

The main purpose of the course is to give students a good understanding of data analysis with Power BI. The course includes creating visualizations, the Power BI Service, and the Power BI Mobile App.

AUDIENCE

The course will likely be attended by SQL Server report creators who are interested in alternative methods of presenting data.

AT COURSE COMPLETION

After completing this course, students will be able to:

- Perform Power BI desktop data transformation.
- Describe Power BI desktop modelling.
- Create a Power BI desktop visualization.
- Implement the Power BI service.
- Describe how to connect to Excel data.
- Describe how to collaborate with Power BI data.
- Connect directly to data stores.
- Describe the Power BI developer API.
- Describe the Power BI mobile app.

PREREQUISITES

This course requires that you meet the following prerequisites:

- Excellent knowledge of relational databases and reporting.
- Some basic knowledge of data warehouse schema topology (including star and snowflake schemas).
- Some exposure to basic programming constructs (such as looping and branching).
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with Microsoft Office applications – particularly Excel.

COURSE OUTLINE**Module 1: Introduction to Self-Service BI Solutions**

- Introduction to business intelligence
- Introduction to data analysis
- Introduction to data visualization
- Overview of self-service BI
- Considerations for self-service BI
- Microsoft tools for self-service BI

Module 2: Introducing Power BI

- Power BI
- The Power BI service

Module 3: Power BI

- Using Excel as a data source for Power BI
- The Power BI data model
- Using databases as a data source for Power BI
- The Power BI service

Module 4: Shaping and Combining Data

- Power BI desktop queries
- Shaping data
- Combining data

Module 5: Modeling data

- Relationships
- DAX queries
- Calculations and measures

Module 6: Interactive Data Visualizations

- Creating Power BI reports
- Managing a Power BI solution

Module 7: Direct Connectivity

- Cloud data
- Connecting to analysis services

Module 8: The Developer API

- The developer API
- Custom visuals

Module 9: Power BI mobile app

- The Power BI mobile app
- Using the Power BI mobile app
- Power BI embedded